

Missouri Department of Natural Resources

## Total Maximum Daily Load Information Sheet

### West Fork Sni-A-Bar Creek

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#### Waterbody Segment at a Glance:

**County:** Jackson  
**Nearby Cities:** Blue Springs  
**Length of impairment:** 2 miles  
**Pollutants:** Biochemical Oxygen Demand (BOD)  
Volatile Suspended Solids (VSS)  
**Source:** Lake Lotawana Lagoon



State map showing location of watershed

**Entry changed on proposed 2002 303(d) list from 6.0 to 2.0 miles, source changed to Lake Lotawana Lagoon, and NFR changed to VSS.**

**TMDL Priority Ranking:** Low

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#### Description of the Problem

##### Beneficial uses of West Fork Sni-A-Bar Creek

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life and Human Health associated with Fish Consumption.

##### Use that is impaired

- Protection of Warm Water Aquatic Life

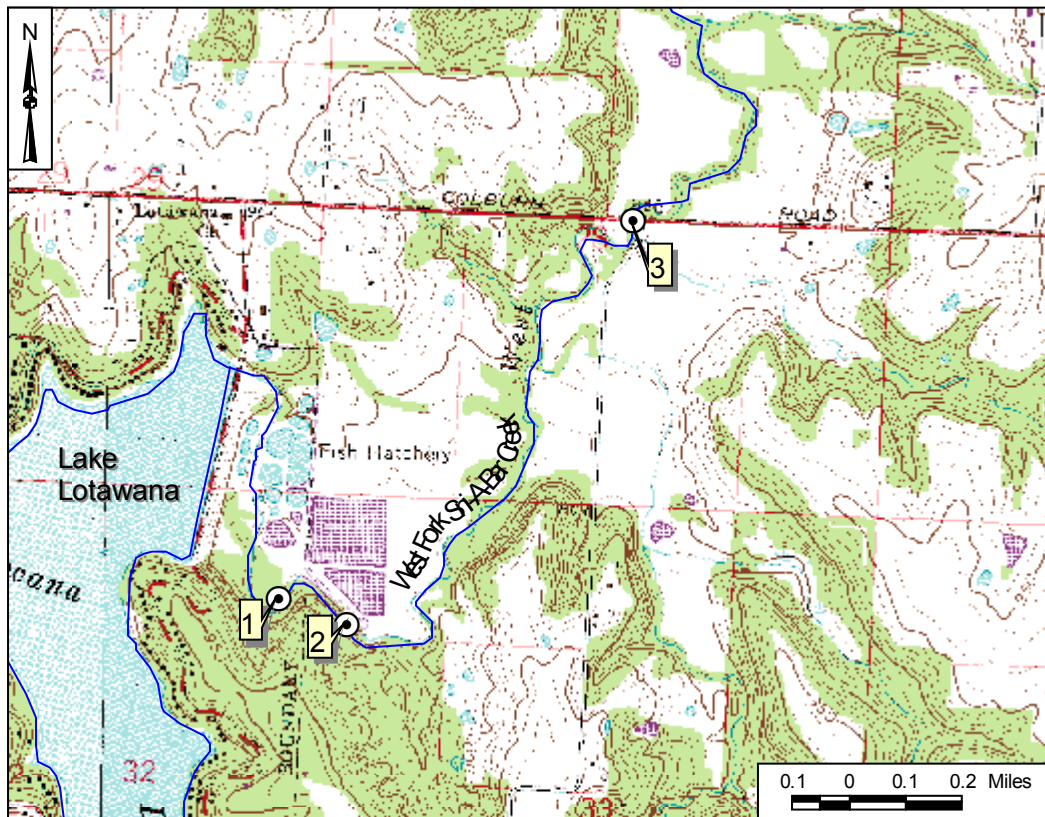
##### Standards that apply

- The Missouri Water Quality Standard, found in 10 CSR 20-7.031 Table A, for dissolved oxygen (related to BOD) in streams is 5.0 milligrams per liter (mg/L) or parts per million.
- Standards for Volatile Suspended Solids (VSS) is found in the general criteria section of the WQS, 10 CSR 20-7.031(3)(A) and (C) where it states:
  - Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses.
  - Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses.

Any waterbody that was listed for Non-Filterable Residue (NFR) in 1998 is now being listed as Volatile Suspended Solids (VSS). VSS are organic solids coming from wastewater treatment plants. The new listing gives a clearer picture of the specific pollutants affecting the water.

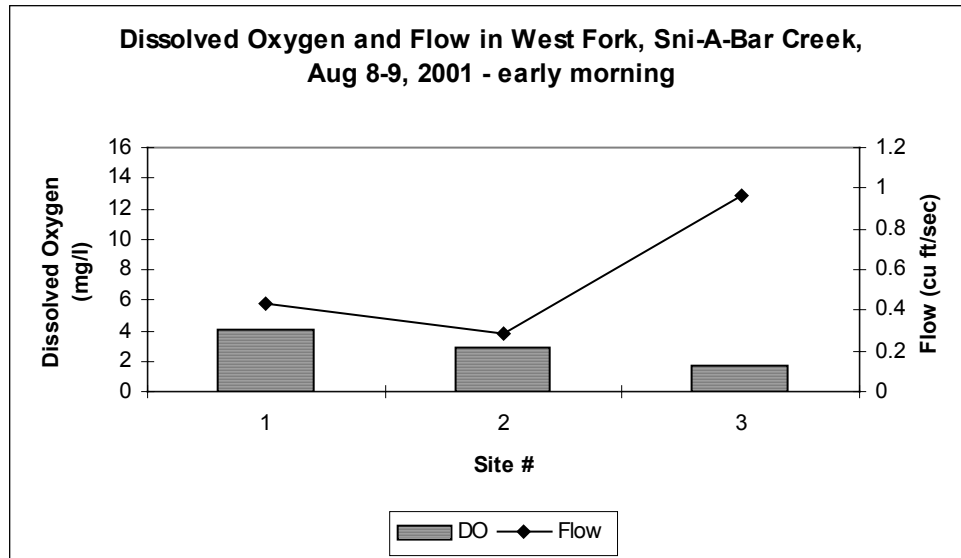
West Fork Sni-a-Bar Creek shows low levels of dissolved oxygen downstream from the Lake Lotawana Lagoon. Dissolved oxygen in the stream's water is reduced by wastewater high in Biochemical Oxygen Demand (BOD), and most aquatic organisms require high levels of oxygen to survive. There is also an accumulation of objectionable solids in the same stretch of the creek. Aquatic invertebrate animals and fish eggs are smothered when these solids settle onto the bottom of a stream. Like all wastewater discharges in Missouri, this lagoon has to meet the requirements of a discharge permit issued by Missouri Department of Natural Resources. The department is now conducting a Water Quality study of West Fork Sni-A-Bar Creek that will assist in setting appropriate permit limits at the Lake Lotawana lagoon and other wastewater discharges to this stream.

#### Map Showing Sampling Sites on West Fork Sni-A-Bar Creek in Jackson County, Missouri

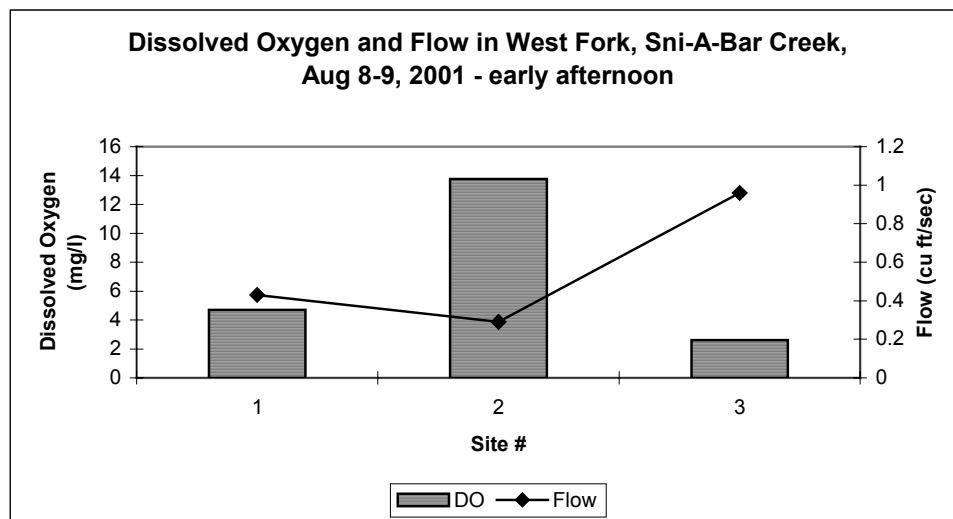


##### Site Index

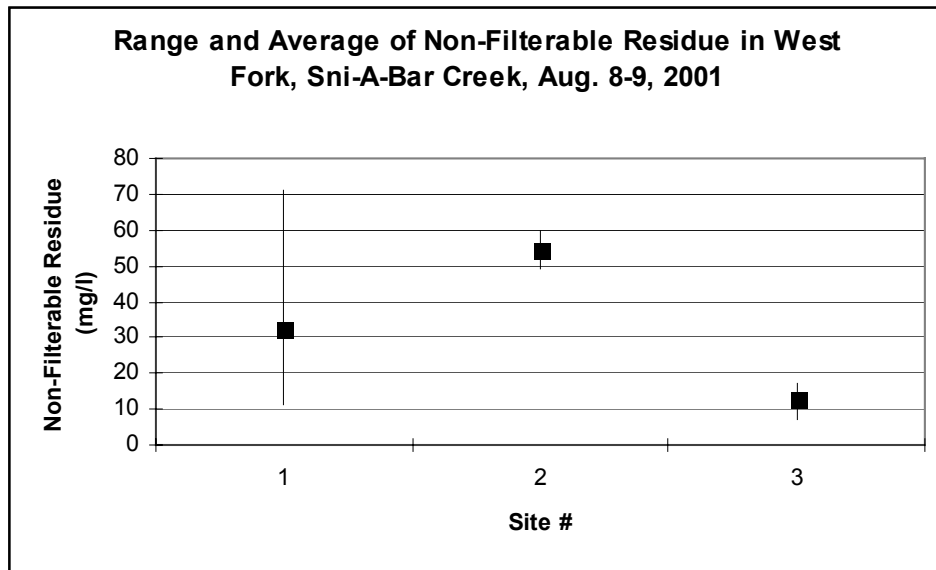
- 1 – West Fork Sni-A-Bar Creek 0.1 mile above Lake Lotawana WWTP
- 2 – Lake Lotawana WWTP outfall
- 3 – West Fork Sni-A-Bar Creek 1.1 miles below Lake Lotawana WWTP



Source: Missouri Department of Natural Resources



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**For more information call or write:**

Missouri Department of Natural Resources

Water Pollution Control Program

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